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APR 26 '79

PROCUREMENT SECTION  
CURRENT SERIAL RECORDS

# AGRICULTURAL LIBRARIES INFORMATION NOTES



## GREEN THUMB

Early in the 1976 growing season the National Weather Service (NWS) and USDA Extension Service jointly explored the needs for better localized weather information to farmers for day-to-day decision making. The result was AGWX or Green Thumb, a system which provides farmers with the latest localized weather, agricultural, market, and other information at a low cost to help them make better day-to-day decisions.

The key is the Green Thumb Box, which will connect to the antenna terminals of the home television receiver and the telephone line, turning the television receiver into a computer terminal. To access the dissemination system, the farmer will call his county Extension agent's office and be connected to a small computer. He will then choose up to eight screensfull of information. The information will then be loaded at highspeed into a memory in his Green Thumb Box, the telephone connection will be terminated and the farmer can view the information at his leisure. If he wants more information, he will call the county computer again. The county computer, which feeds the user's Green Thumb Box, can be readily updated by the county Extension staff according to local needs. It will also be updated on a dial-up basis by the state computer with state and national information. The state computer is loaded by the state Extension staff, the state National Weather Service Forecast Office, and on a dial-up basis by a computer at the National Meteorological Center near Washington, D.C. This national computer provides current radar and certain weather information.

Changing weather conditions can be relayed to the country's 3,150 counties and 2.5 million farmers when they are in the field or on the road. "Everything in agriculture is controlled by weather," Howard F. Lehnert, Jr., of USDA's Extension Service, points out. Weather drives biological mechanisms and is one of the most important variables faced by farmers. Understanding weather and

its effect on the biological systems within agriculture opens up possibilities for greater breakthroughs in controlling pests and optimizing the current radar and certain weather information.

Initial experience in problems of information gathering and development was gained in a pilot project in Maryland. Working with volunteers, many of whom were "weather hobbyists," data was collected on amount and type of precipitation, maximum and minimum temperatures over the past 24 hours, temperature and weather conditions at time of observation, estimated wind direction and velocity, snowfall and snowpack, and in some cases maximum and minimum soil temperatures. The success of the pilot project brought in other states and information is now received also from Connecticut, New York, Virginia, North Carolina, Florida, Ohio, Michigan, Wisconsin, Illinois, Kansas, and California.

The AGWX system was developed to disseminate collected information. Simulation tests have been run in various parts of the county. The system will be tested in October 1979 in two counties in Kentucky as a joint effort of the National Weather Service, USDA's Science and Education Administration - Extension, and the Kentucky Extension Service. This dissemination benefits farmers by providing information formerly not readily available. In this way, farmers can constantly adjust their operations according to changing needs.

*(Continued on page 2)*

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The AGWX system can be a valuable tool for the private sector that sells specialized information tailored to an individual farmer's needs. Information on the system could be further refined and then put on a commercial parallel system that could be accessed by a subscriber using his Green Thumb Box.

USDA's Extension Service believes savings can be realized from the AGWX system in dollars and personnel time currently devoted to farmers through the telephone. More information on Green Thumb is available from Howard Lehnert, SEA/USDA, Room 5503 South Agriculture Building, 14th & Independence Avenue, S.W., Washington, D.C. 20250 (202-447-4681).



## AWARDS TO BE PRESENTED BY ASSOCIATES OF THE NATIONAL AGRICULTURAL LIBRARY, INC.

Three special awards will be made to nominated outstanding recipients in the agricultural library community by the Associates of the National Agricultural Library, Inc. at their annual meeting in the summer of 1979.

The Associates will honor outstanding performance in three different categories. Those honored must be nominated for this special attention by their exceptional contributions to the improvement of the agricultural library system and its literature.

The three categories are: (1) **PROFESSIONAL ACHIEVEMENT AWARD** for any published contribution to library literature or meritorious accomplishment in the library science field. *Eligibility:* Open to agricultural/biological librarians and to members of the Associates NAL, Inc.

(2) **CITATION OF SPECIAL RECOGNITION** for special achievement and/or service given to the National Agricultural Library, to other agricultural libraries, or significant achievements leading to the advancement of the library science field. *Eligibility:* Open to concerned individuals and organizations in the agricultural field, NAL staff, and the Associates NAL, Inc.



*The Award takes the form of a bronze medallion.*

(3) **DISTINGUISHED SERVICE AWARD** recognizes and encourages meritorious performance exceeding job requirements at the National Agricultural Library. *Eligibility:* Open to all members of the National Agricultural Library Staff.

All nominations should be mailed not later than May 31, 1979 to Ms. Barbara J. Williams, Box 1565, South Carolina State College, Orangeburg, South Carolina 29115. Each nomination should include the following information: (1) Name of the award for which the candidate is proposed, (2) a brief statement of the basis of the nomination and, where appropriate, a bibliography which supports the nomination.

The Associates NAL, Inc. seek your participation and interest.

**POSITION OPEN:** Librarian, Life Sciences. Purdue University. Salary \$18,000 or more depending on qualifications. Send resume and list of references to: Thomas L. Haworth, Personnel Officer, Libraries/Audio-Visual Center, Steuart Center, Purdue University, West Lafayette, Indiana 47907. Deadline May 15, 1979.






#### MAKING ANIMAL HEALTH INFORMATION EASIER

**TO GET:** Representatives of the world's major repositories of information on animal health and disease met in Washington, D.C., on December 4-6, 1978, to inform each other exactly what each of them has collected, how the information that is being kept can be obtained, and to offer their opinions about improvements in getting vital data to those who need it. The International Symposium on Animal Health and Disease Data Banks was sponsored by USDA's Animal and Plant Health Inspection Service (APHIS) and the Science and Education Administration (SEA).

Dr. Edwin I. Pilchard, APHIS staff veterinarian and chair person of the Symposium, points out that in agriculture many special purpose information centers have been developed, primarily to meet the needs of the sponsoring group or agency. The Symposium was designed to increase communication and cooperation among information centers so that more knowledge can be applied to increasing the needed supply of food and fiber of animal origin.


The Symposium brought together more than 130 specialists in such areas as: (1) bibliographic information; (2) epidemiological information; (3) laboratory and clinical data; (4) information on research in progress; and, (5) animal production and economic data.

A directory of animal health and disease data banks—to be completed from mail questionnaires—is a followup project of the Symposium. Published proceedings will include papers that were presented at the Symposium plus selected papers that could not be presented in person.

Information on the proceedings and directory can be obtained from the Associates NAL, Inc., Attn. Ms. Leila Moran, Room III, National Agriculture Library, TIS-SEA, Beltsville, Md. 20705. 

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**AGRICULTURAL COMMODITIES INDEX:** Jane B. McFall, senior assistant librarian (Life Sciences), The Pennsylvania State University Libraries, is the editor of a unique reference work, an index to the United States Department of Agriculture statistical publications in series for commodity, input, or product data

appearing in the last decade. *Agricultural Commodities Index*, published by Oryx Press, provides ready access to a substantial portion of historical data and indicates which series will likely contain supportive current data. The detailed analysis of the information enables the user to locate a specific commodity or product, to identify major inputs and other data elements, and to determine the broadly statistical and geographic coverage of the publication. It is intended for any person beginning a data search in the fields of food and agriculture. Consumers, field workers in agriculture, researchers and other personnel in the areas of agri-business, marketing, food and agricultural economics, will find this index an invaluable, time-saving reference. The card index which forms the basis of this work was described in *Agricultural Libraries Information Notes* July/Aug., 1977, vol. 3 no. 7/8, page 17. 

#### U.S.D.A. REGIONAL DOCUMENT DELIVERY SYSTEM

The 1978 report points up some interesting facts. Requests received were up 4.5% as contrasted with a 1% increase the previous year. The completion rate fell 1.6% below 1977 to 73.4%. Costs per transaction went down .29¢ based on items received (or .31¢ on items completed). Technical Information Systems (TIS) spent an average of \$700 less a month than in 1977.

These trends seem clear:

- Volumes sent (rather than photocopies) as a percentage of all completions is up slightly, as in past years.
- Photocopied pages per transaction continue to climb, largely as a result of regionals supplying extra copies of CALS (Current Awareness Literature Service) forms when mailed to TIS.
- The principle of verification only on items where the prospect of error or mis-citation is great seems to be paying off without dramatic effect on fulfillment rates.
- Several very active land-grant libraries in the system show a major reduction in requests received.
- The five regional libraries continue to provide a greater share of all completions.

Extracted from *U.S.D.A. Regional Document Delivery System -- 1978 Report* by Wallace C. Olsen. Copies are available from Library Services, Technical Information Systems, SEA/USDA, Beltsville, Md. 20705. Please send a self-addressed mailing label with your request.



The titles listed below are owned by the Library; those lacking call numbers have not yet been cataloged.  
The foreign, as well as domestic titles are available from the Library through loan or photocopy.

*A Bibliography of Imported Fire Ants and the Chemicals and Methods Used for Their Control.* W. A. Banks, C. S. Lofgren, and D. P. Wojcik. New Orleans, U.S. Dept. of Agriculture, Agricultural Research Service. July 1978. 35 p. (ARS-S-180.) 746 citations. Order from: USDA/ARS, Southern Region. P.O. Box 53326, New Orleans, Louisiana, 70153. Free. (NAL call no.: aS21.A75U53.)

*Bibliography of Taro and Edible Aroids.* Peter P. Rotar, Donald L. Plucknett, and Barbara K. Bird. Honolulu, Hawaii, University, Cooperative Extension Service. June 1978. 245 p. (Miscellaneous Publication 158.) 1083 citations. Order from: Dept. of Agronomy and Soil Science, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa, Honolulu, Hawaii 96822. Free. (NAL call no.: S544.3.H3H3.)

*Douglas-Fir Tussock Moth: An Annotated Bibliography.* Robert W. Campbell and Lorna C. Youngs. Portland, Oregon. U.S. Pacific Northwest Forest and Range Experiment Station. 1978. 168 p. (General Technical Report PNW-68.) 338 citations. Order from: Pacific Northwest Forest and Range Experiment Station, P.O. Box 3141, Portland, Oregon 97208. Free. (NAL call no.: a SD11.A46.)

*Educational Needs Projection and Rural Development: A Bibliography.* Gerald C. Wheelock and Pushpa B. Sapra et al. Mississippi State, Mississippi, SRDC Functional Network. August 1978. 161 p. (SRDC Bibliography Series, no. 7.) 739 citations. Order from: Southern Rural Development Center, Box 5406, Mississippi State, Mississippi 39762. Price: \$5.00. (NAL call no.: Z7164.C842S62.)

*Endangered Plant Species of the World and Their Endangered Habitats: A Compilation of the Literature.* Meryl A. Miasek and Charles R. Long. Bronx, New York, The Library of The New York Botanical Garden. July 1978. 46 p. Approx. 690 citations, some with abstracts. Order from: Library, The New York Botanical Garden, Bronx, New York 10458. Price: \$3.50.

*Inmunidad en Fiebre Aftosa: (Bibliografia).* [Immunity in Foot-and-Mouth Disease: Bibliography]. Leonor Amaral. Rio de Janeiro, Centro Panamericano de Fiebre Aftosa. March 1978. 33 p. (Serie de bibliografias, no. 21.) 271 citations. Order from: Pan American Health Organization, Attn. Ms. Maria Teresa Astrosa, 525 - 23d Street, N.W., Washington, D.C. 20037. Price unavailable. (NAL call no.: Z6674.F6P3.)

*Plant Juice Protein and Moisture Expression from Organic Materials: A Bibliography Addenda to R2386 Published May 1976.* H. W. Ream, R. G. Koegel, H. D. Bruhn, and N. A. Jørgensen. Madison, College of Agricultural and Life Sciences, University of Wisconsin. April 1978. 17 p. (Wisconsin, University, Cooperative Extension Programs. [Publication] R2386-1.) Approx. 270 citations. Order from: Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706. Free. (NAL call no.: S544.3.W6W53.)

*Postharvest Food Losses in Developing Countries: A Bibliography.* Robert F. Morris. Washington, D.C., National Academy of Sciences, 1978. 356 p. app. 2,400 citations. Free. Request from Board on Science and Technology for International Development, 2101 Constitution Ave., N.W., Washington, D.C. 20418.

*Selected Bibliography of the Phenoxy Herbicides.* J. D. Draz - Colon and R. W. Bovey. College Station, Texas, Texas A and M University System.

IV. *Ecological Effects.* February 1978. 28 p. 196 citations.

V. *Interrelations with Microorganisms.* June 1978. 87 p. 202 citations.

VI. *Methods of Extraction and Analysis.* June 1978. 33 p. 242 citations.

VII. *Military Uses.* July 1978. 25 p. 269 citations.

VIII. *Effects on Higher Plants.* August 1978. 59 p. 526 citations.

Order from: The Texas Agricultural Experiment Station, Texas A & M University, College Station, Texas 77840. Free. (NAL call no.: 100 T31M.)







## QUICK BIBLIOGRAPHY SERIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the TIS Reference Staff in response to customer requests.

Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length (approximately 150 citations or more) and probable value to a larger audience. All titles in this series will be listed for four months. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requestors may make copies. To request a copy of a Quick Bibliography send the title, series number, and a return addressed label to:

Reference Division  
Technical Information Systems, SEA, USDA  
National Agricultural Library Building  
Beltsville, MD 20705

NAL — BIBL. — 79-02. *Hydroponics and Soilless Cultures, 1969-May 1978*. 131 citations from AGRICOLA. Search by Henry Gilbert. February 1979.

NAL — BIBL. — 79-03. *U.S. Small Farms and Farmers, 1969-November 1978*. 127 citations from AGRICOLA. Search by David Hoyt. January 1979.

NAL — BIBL. — 79-04. *Irrigation Scheduling, 1969-November 1978*. 183 citations from AGRICOLA. Search by Jayne MacLean. January 1979.

NAL — BIBL. — 79-05. *Mulches, 1969-November 1978*. 303 citations from AGRICOLA. Search by Ruth Pyne. February 1979.

NAL — BIBL. — 79-06. *Consumer Issues, Problems, and Awareness, 1969-November 1978*. 217 citations from AGRICOLA. Search by David Hoyt. March 1979.

NAL — BIBL. — 79-07. *Water Pollution from Agricultural Lands*. 227 citations from AGRICOLA. Search by David Hoyt. March 1979.

Clearance has been granted to USDA authors to contribute the following bibliographies:

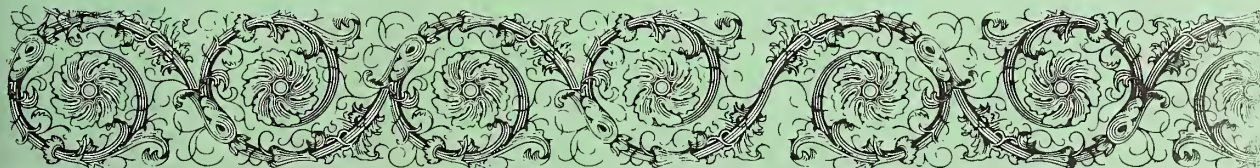
*A Bibliography on Clearwing (Sesiidae)*. J. D. Solon and Mary Ellen Dix. For information contact: Mr. Edward Kerr, Group Leader, Southern Forest Experiment Station, U.S. Postal Service Building, 701 Loyola Avenue, New Orleans, Louisiana 70113.

*A Bibliography on Live Oak Decline (Ceratocystis Fagacearum)*. Forrest Oliveria and Robert Lewis. For information contact: Mr. Edward Kerr, Group Leader, Southern Forest Experiment Station, U.S. Postal Service Building, 701 Loyola Avenue, New Orleans, Louisiana 70113.

*Aquaculture and Hydroponics: 1968 - 1978*. Charles N. Bebee. For information contact: Compiler, Automated Retrieval Section, USDA, SEA, TIS, National Agricultural Library Building, Beltsville, Maryland.

*Bibliography on the Economics of Fruit and Vegetable Production and Marketing, 1965-76*. Joan Pearrow. For information contact: Ms. Judith Latham, ESCS Information, USDA, South Building, Washington, D.C. 20250.

*Economics of Size in Local Government: An Annotated Bibliography*. W. F. Fox, J. Stam, W. M. Godsey, and S. Brown. For information contact: Ms. Debra R. ESCS Information, USDA, South Building, Washington, D.C. 20250.





Technical Information Systems reviews titles before translations are made in order to avoid duplication within USDA. We also receive copies on deposit often far in advance of their listings in the standard bibliographic tools. This column is an alert to selected new receipts at TIS.

These items are available to USDA personnel upon presentation of a loan request (AD-245) with the identification: TRANS. No. \_\_\_\_\_ along with the citation. Non-USDA persons may request photo-duplication at the rate of \$2 for each 10 pages or fraction thereof per citation. TRANS. No. \_\_\_\_\_ MUST be on the request. Both types of requests should be sent to:

Lending Division, Technical Information Systems  
National Agricultural Library Building  
U.S. Department of Agriculture  
Beltsville, Maryland 20705

The Technical Translation Number will also be cited for those translations prepared for the U.S. Department of Agriculture and the National Science Foundation under the P.L. 480 program. Copies of these translations may also be ordered from the National Translation Center, John Crerar Library, 35 West 33rd Street, Chicago, IL 60616.

AMENIYA, S. and Y. SHOJI. The Stake Test at Asakawa Experiment Forest (5). Changes of Metal Residues in the Stakes Treated with Copper Sulphate, Wolman Salt and Boliden Salt During Ten Exposure Years. Translated from Japanese: *Ringyo Shikenjo Kenkyu Hoko*. (Bulletin of the Government Forestry Experiment Station). 284, 81-107, 1976. TRANS. No. 23535.

BARTEMEV, I. M. and V. P. D'YAKOV. Deformation of Soil on Slopes by Straight and Slanted Wedges. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 3: 8-10, 1978. TRANS. No. 23507.

IVASHENKO, M. I. Calculation of the Draft Resistance of Plows While Tilling Soils. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 9: 40-41, 1977. TRANS. No. 23491.

KUSSERA, GYORGY. Serotypes of Erysipelothrix Rhusiopathie Strains Isolated in Ruanda. Translated from Hungarian: *Magyar Allatorvosok Lapja*. 32 (2) 125-6, 1977. TRANS. No. 23427.

NYBERG, K. A Preliminary Report Concerning Introductory Research on Reproduction and Artificial Insemination in Minl. Translated from Norwegian: *Nor. Pelsdyrbl.* 50 (3) 143-144, 1976. TRANS. No. 23620.

OGRYZKOV, E. P. Reasons for the Formation of Rear Faces on Cutting Edges of Plowshares. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 9: 41-42, 1977. TRANS. No. 23493.

PERDOK, U. D. and M. G. TELLE. Institute for Mechanization, Labor and Buildings. First Experiences With Controlled Field Traffic and Cable Tractor Guidance. Translated from Dutch: *Landbouwmecanisatie*. 29: 383-387, 1978. TRANS. No. 23528.

SHEININ, N. E. and N.G. SHITINA. Graphical Modeling of High Speed Working Surfaces. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 3: 11-13, 1978. TRANS. No. 23504.

SIZOV, O. A. and V. A. MILYUTKIN. Operation of a Cutting Edge in the Soil. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 3: 7-8, 1978. TRANS. No. 23508.

VINOKUROV, V. N. and A. K. MALOV. Study of the Resource of Self-Sharpening Plowshares. Translated from Russian: *Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva*. 3: 40-42, 1978. TRANS. No. 23505.

ZYBUTSKAIA M. A. and S. G. ARAKCHEEVA. Development Times and Longevity of Trichocephalus (Trichuris) muris Schrank, 1788 in White Mice. Translated from Russian: *Med. Parazit. i Parazit. Bol.* 67 (3) 74-77, 1978. TRANS. No. 23510.





## NEW PUBLICATIONS OF NOTE



*Agricultural and Food Research Issues and Priorities: A Review and Assessment.* E. L. Corley and James Turnbull. Washington, D.C., Science and Education Administration, U.S. Department of Agriculture, 1979. 123 p. Free. Request from Technical Publication Group, Information Staff, Science and Education Administration, Room 3152, South Building, U.S. Department of Agriculture, Washington, D.C. 20250.

*Citrus Industry, vol. IV: Crop Protection.* Walter Reuther, E. Clair Calavan, Glenn E. Carman. Rev. ed. Richmond, CA, Agricultural Sciences Publications, 1978. \$20.00. Order directly from the Publisher at 1422 Harbor Way South, Richmond, CA 94804.

*Food: Reports, Legislation and Information Sources, A Guide Issued by the Comptroller General.* Washington, D.C., U.S. General Accounting Office, 1978. (CED-78-37) \$4.25. Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. GPO Stock Number:020-000-00161-5.

*Price-Support and Adjustment Programs From 1933 Through 1978: A Short History.* Wayne D. Rasmussen and Gladys L. Baker. Washington, D.C., Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture (1979). 32 p. (Agricultural Information Bulletin No. 424). Free. Request from Information Division, ESCS/USDA, Room 0054, South Bldg., 14th & Independence Ave., S.W., Washington, D.C. 20250.

*Private Funding for Rural Programs. Directory of Foundations and Other Private Sector Resources.* Barbara Stephens. Washington, D.C., National Rural Center, 1978. 63 p. Free. Request from Center, 1828 L St., N.W., Washington, D.C. 20008

*Resource Guide for Rural Development. Handbook for Accessing Government and Private Funding Sources.* Larry Newlin and Kathryn Baker. Washington, D.C., National Rural Center, 1978. 149 p. Free. Request from Center, 1828 L St., N.W., Washington, D.C. 20008

The Montana State University College of Agriculture has joined the ranks of those schools revamping the format of their publications, coming up with more attractive designs to appeal to their readers. Montana State's *FOCUS on Montana Agriculture* replaced the school's *NOW* magazine and reports the work of the Montana Agricultural Experiment Station and the Cooperative Extension Service. Cover story of the premiere issue looks at efforts to improve soil reclaimed from strip-mined land near Colstrip. Extension Mail Room, Montana State University, Bozeman, Mont. 59717.

## AGRICULTURAL EXTENSION

The Extension Committee on organization and policy (ECOP) is sponsoring workshops on "remote computer processing in Agricultural Extension Programs." The workshops are designed for participants to (1) become enthusiastic about using computers in their Extension Education Programs; (2) to become familiar with some of the existing computer programs in their subject matter speciality; (3) to learn the options available for accessing computer programs; (4) to learn how computer programs have been used as a method in delivering Extension education and (5) to learn what is needed in the way of hardware and software.

The location and dates of the workshops are:

Atlanta	- April 17-19
Kansas City	- May 1-3

The agenda will include general sessions on the first and third day and four concurrent sessions on the second day in animal science, plant science, agricultural economics and agricultural engineering. These concurrent sessions will provide opportunities to gain hands-on experience with computer programs designed for educational use in these subject matter areas.

The workshop is designed for Extension Agricultural specialists as well as other Extension specialists. For further information contact: James F. Johnson, Extension Leader, Cooperative Extension Service, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.



## 6-9: BELTSVILLE SYMPOSIA IN AGRICULTURAL ARCHIV: HUMAN NUTRITION RESEARCH.

Beltsville, Md. Contact: Dr. Walter Mertz (program 301-344-2051) Room 223, Building 308, or Dr. John A. Mertz (arrangements 301-344-2157) Beltsville Agricultural Research Center, Beltsville, MD 20705

## 7-11: INTERNATIONAL SYMPOSIUM ON USE OF ISOTOPES FOR RESEARCH AND CONTROL OF VECTORS OF ANIMAL DISEASES, HOST PATHOGEN RELATIONSHIPS AND THE ENVIRONMENTAL IMPACT OF CONTROL PROCEDURES. Vienna, Austria.

Contact: John H. Kane, DOE/OTI, MS A1-5216, Washington, D.C. 20545 (COMM 301-353-3378; 301-333-3378)

## 15-18: INTERNATIONAL SYMPOSIUM ON THE AGRICULTURAL INDUSTRY AND ITS EFFECT ON WATER QUALITY. Hamilton, New Zealand Committee on Water Pollution. Contact: Dr. C. J. Schouten, Water Pollution Division, Ministry of Works and Development, P.O. Box 100, Hamilton, New Zealand.

## 19-22: INSTITUTE ON FEDERAL INFORMATION POLICIES AND ACCESS. Washington, D.C. Contact: Patricia Beard or Lowell H. Hattery, American University, 440 Hurst Hall, Washington, D.C. 20016 (202-686-2000)

## 28-June 1: 1979 INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOLAR ENERGY SOCIETY. Atlanta, Georgia. Sponsor: International Solar Energy Society, Cape Canaveral, Fla. (USA). Contact: W. Shropshire, Jr., Radiation Biology Laboratory, Parklawn Drive, Rockville, MD 20852.

## 24-27: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS AND CANADIAN SOCIETY OF AGRICULTURAL ENGINEERING SUMMER MEETING.

Edmonton, Canada. Contact: R. R. Castenson, American Society of Agricultural Engineers, 2950 Niles Road, Farmington, MI 49085

## 26: AMERICAN ASSOCIATION OF PARASITOLOGISTS ANNUAL MEETING (in conj.) with AMERICAN VETERINARY MEDICAL ASSOCIATION ANNUAL MEETING.

Contact: R. R. Bell, DVM, AAVP, Texas A & M University, College Station, TX 77843.

## July 29-August 1: AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION MEETING.

Pullman, Washington. Contact: J. C. Redman, AAEA, Department of Agricultural Economics, University of Kentucky, Lexington KY 40506.

## August 5-12: 9th INTERNATIONAL CONGRESS OF PLANT PROTECTION, Washington, D.C.

Contact: James G. Horsfall, Connecticut Agricultural Experiment Station, Box 1106, New Haven, CT 06504.

## August 5-10: AMERICAN SOCIETY OF AGRONOMY, CROP SCIENCE SOCIETY OF AMERICA, SOIL SCIENCE SOCIETY OF AMERICA. Joint Annual Meeting, Fort Collins, CO. Contact: Bob Furbee, Public Relations Manager, ASA Headquarters, 677 South Segoe Road, Madison, WI 53711 (608-274-1212)

## August 27-31: 27TH CONGRESS OF THE INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY. Helsinki, Finland.

Sponsor: International Union of Pure and Applied Chemistry, Oxford (UK). Contact: Dr. J. Larinkari, Kemian Keskuslitto, P.O. Box 13028, Fabianinkatu, SF-00131, Helsinki 13, Finland.

## October 2-4: GRAIN DUST-ITS CHARACTERISTICS, EXPLOSIBILITY, HAZARD CONTROL, AND UTILIZATION-WHERE WE ARE AND WHERE WE ARE GOING. Kansas State University. Contact: Byron S. Miller, U.S. Grain Marketing Research Laboratory, 1515 College Ave., Manhattan, Kansas 66502 (913) 539-9141.

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